Cornell CALS
College of Agriculture and Life Sciences

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Department of Animal Science - Plants Poisonous to Livestock

PLEASE NOTE:
"Poisonous" does not mean deadly. Some manifestations of toxicity are subtle. The dose, as always, determines if a plant is safe source of nutrients or a toxic hazard.

Home Page

Search Database

Find:
-by botanical name

-by common name

Scientific & Common Name Equivalents

Toxic Agents

Commonly Affected Species

FAQs

Other Sites

Toxic Agents in Plants

ALKALOIDS
- Indole Alkaloids (Beta-carbolines etc.)
- Indolizidine
- Piperidine
- Polycyclic Diterpene
- Pyridine
- Pyrrolizidine
- Quinolizidine
- Steroids
- Tropane
- Tryptamine

ALCOHOLS AND KETONES
- Alcohols
  - Diacetone alcohol
  - Diethylene glycol
  - Ethanol
  - Ethylene glycol
  - Methanol
  - Propylene glycol
- Ketones
  - Cicutoxin
  - Tremetone
  - Treratol

CARBOHYDRATES
- Oligosaccharides
- Beta-glucans
- Pectins
- Raffinose
- Simple Sugars
- Favism
- Fructose
- Galactose
- Lactose
- Sucrose
- Xylose

CHELATING POISONS
- Nitrates
- Nitrites
- Oxalates
- Phytates

GLYCOSIDES
- Calcinogenic Glycosides
- Carboxyatractylosides
- Cardiac Glycosides
- Coumarins
- Furocormarins
- Glucosinolates (Goitrogenic Glycosides)
- Isoflavones and Coumestans
- Nitroglycosides (Nitropropanol Glycosides)
- Ranoculins
- Saponins
- Vicine/Covicine

LIPIDS
- Fatty Acids

MYCOTOXINS
- Aflatoxins
- Citrinin
- Fungal Tremorgens
- Lupinosis
- Ochratoxins
- Patulin
- Rubratoxins
- Sporidesmin
- Stachybotyrotoxins
- Trichothecenes
- Zearalenone

PHENOLIC TOXICANTS
- Cinnamic Acid
- Fagopyricin
- Gossypol
- Hypericin
- Pterocin
- Resoricinol
- Urushiol
- Tannins

PROTEINS AND AMINO ACIDS
- Allergens
  - Amylase Inhibitors
  - Enzymes
  - Lipoxidases
  - Thiaminases
  - Tocopheroloxidase
- Lectins
  - Abris
  - Concanavalin
  - Ricin
  - Robin
- Plant Cytoplasmic Proteins
- Polypeptides
- Amino Acids
  - Nutrient
    - Leucine
    - Methionine
    - SMCO
    - Tryptophan
  - Non-nutrient
    - Arginine analogs
    - Canavanine
    - Indospecine
    - l amino D proline
    - dihydroxyphenylalanine
    - Lathyrogens
    - Mimosine

RESINS

SESQUITERPENE LACTONES

VITAMINS
- Vitamin A
- Vitamin D metabolites

- Cyclopropenoid fatty acids
- Erucic acid
- Fluoroacetate

- Glycolipids

METALS

- Heavy Metals
  - Copper
  - Mercury
  - Selenium
  - Arsenic
  - Lead
- Iron

MISCELLANEOUS

- Ipomemaron - mycotoxin?
- Alsike Poisoning - mycotoxin?
- Red Maple Poisoning (similar to Brassica induced anemia)
- Plant Carcinogens
- n-Propyl Disulfide (similar to Brassica induced anemia)

Questions regarding content of this page, contact Dr. Dan Brown

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